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ABSTRACT

An update of a previous study produced information on the status of special education professional personnel in Michigan. Computer tape copies of the state's Professional Personnel Register and Cortification Master File were analyzed. Detailed data are reported for eight basic tasks, including employment of beginning professional personnel in special education assignments in 1980 (a 4% increase over 1979-80, but less than the 7% or 8% growth rate of the preceding 2 years); new employment of personnel with 1 or more years teaching experience; return rate of special education teachers (an -increasing number each year); attrition rate of special education professional personnel (a decreasing attrition rate with a larger proportion of staff returning subsequent years); number of new endorsements of certificate (an overall decrease in the number of total initial provisional certificate endorsements for all categories of special education); attrition rates, of special education administrators (similar to those of special education teachers); and the need for special education 'teachers (continued growth in the number of new positions in categories of mentally impaired, speech impaired, social worker, emotionally impaired, school psychologist, hearing impaired, learning disabled, and occupational/physical therapy). Two main recommendations are offered: establishing a common coding system by Special Education Service's and Teacher Preparation and Certification Services; and conducting a statewide study on the extent of absence among special education teachers, the qualifications of substitutes, and an annual census of substitutes used in the state's special education classes. Detailed tables are appended. (CL)

************* Reproductions supplied by EDRS are the best that can be made from the original document. ************ This study was undertaken to update a previous investigation(1) of Special Education professional personnel employed in Michigan Public Schools. The following questions or tasks were posed:

- 1. How many beginning professional personnel (zero years teaching experience) were newly employed in Special Education assignments in Michigan Public Schools in the 1980-81 school year?
- 2. How many professional personnel with one or more years teaching experience were newly employed in Special Education assignments in 1980-81?
- 3. How many Special Education professional personnel who were employed in 1979-80 returned to Special Education assignments in 1980-81?
- 4. For those Special Education professional personnel employed in 1980-81, provide descriptive summaries for each disability category using the following variables:
 - A. Age distribution
 - B. Salary distribution
 - C. Employment levels
 - D: Highest degree achieved
- 5. For each disability category, determine the cumulative attrition (loss of professionals) for each year through 1980-81.
- 6. For each disability category, determine the number of new endorsements recommended by Michigan teacher education institutions.
- 7. Provide descriptive statistics for Special Education administrators employed in Michigan Public Schools. This section should include information about age, initial teacher training, highest degree, current salary, and attrition of Special



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Education administrators.

8. Provide additional empirical evidence of the availability of qualified substitute teachers employed to replace absent teachers in Special Education assignments in Michigan Public Schools during 1978-79.

PROCEDURES

information regarding employment, the researcher used computer tape copies of the Michigan Professional Personnel Register for the school years 1973-74, 1974-75, 1975-76, 1976-77, 1977-78, 1978-79, 1979-80, and 1980-81. These tapes were provided by the Teacher Preparation Certification services, Michigan Department of Education (2). The Register includes descriptive information about the professional personnel employed in Michigan Public Schools in the following Special Education assignments: mentally handicapped, speech impaired, orthopedically handicapped, school social worker, emotionally impaired, psychologist, homebound, teacher counselor for physically handicapped, blind, deaf, teacher of trainable, disabled, handicappeá, learning mentally. consultant occupational/physical therapy, directors, supervisors.

In dealing with the question of attrition, the researcher used the social security number of each person to determine whether or not he/she returned to a Special Education assignment in Michigan Public Schools.

For information regarding certification, the researcher used computer appearance appearance of the Teacher Certification Master File, which were provided



by the Teacher Preparation and Certification Services, Michigan Department of Education. This file indicates the endorsements for each certified teacher as well as the institution and year when the endorsements were recommended.

The Michigan Department of Education customarily counts the number of provisional certificates and endorsements issued during a fiscal year, July 1, 1980 through June 30, 1981. However, it takes time to secure, verify, and process the certificate recommendations from each teacher education institution. Since the annual report including graduates of December 1980 would not be completed until about September 1981, the researcher elected to use the calendar year, January 1 1980 through Necember 31 1980, for the count of provisional certificates and endorsements is sued.

A sample of data for Special Education teachers was selected from 13 school districts in southeastern Michigan. The data indicated the number of teacher absences during the 1978-79 school year as well as the qualifications of substitute teachers employed by the districts to replace the absent Special Education teachers.

The social security numbers of these teachers and substitute teachers were used with the Michigan Professional Personnel Register and the Certification Master File to expand the available information about these teaching personnel.

FORTRAN and STDS programs were used with the conventional statistical programs to collect and analyze the data in order to answer the preceding questions.

RESULTS

Total Teachers Employed: Table I shows the number of teaching personnel who had either a major or secondary assignment in Special Education for each year from 1974-75 through 1980-81. The total number of Special Education teaching assignments in 1980-81 is 4% greater than the total in 1979-80. However, the 4% increase is substantially less than the 7% or 8% growth which characterized the preceding two years.

The table shows the number of persons in each category of Special Education, while the number in parentheses shows the annual percent change in number of persons employed in that category. For example, there were 3159 teachers of mentally impaired (SA) pupils employed in 1979-80 and that number increased in 1980-81 to 3243 teachers, which represents an increase of 3%. The total number of teachers in this category has increased each year, with the largest increase occurring in 1976-77 when 2898 teachers were employed representing an 18% increase over the preceding year. Similar interpretations may be obtained for each row in Table 1.

For 1980-81, the data indicate a substantial increase continued in the total number of assignments for teachers of learning disabled (SM); however, the 13% increase in 1980-81 is down from the substantially higher growth rates of the preceding years. There were small increases in the number of persons employed as social workers (SD) and in the areas of speech impaired (SB), school psychologist (SG), therapists (NU), emotionally impaired (SE), mentally impaired (SA), orthopedic (SC), deaf (SL). There were small decreases in the total number of teachers employed to work with homebound (SH), consultants for phys. Impaired (SI), blind (SK), consultants for mentally impaired (SU), and trainable (ST).



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The classification of diagnostician (SF) is being replaced by the school psychologist and this explains the decrease in that category.

Newly Employed Teachers: Table 2 shows the number of newly employed Special Education teachers for each category between 1974-75 and 1980-81. There was a 14% decrease in the number of Special Education teachers newly employed in 1980-81. The total number of newly employed teachers had been stable at slightly more than 2000 persons employed each year for the last three years. However, the total number of persons hired in 1980-81 decreased 300 persons below the number employed the preceding year.

Table 3 provides descriptive statistics for beginning professional personnel (zero years teaching experience) who were newly employed in each category for the 1980-81 school year. Table 4 contains descriptive statistics of newly hired professionals who had previous teaching experience. For each category, the tables show the number of newly employed persons, sex, average age, highest degree, instructional levels, and average salary.

Table 5 provides a similar summary of the characteristics of all Special Education professional personnel who were employed in 1980-81. Average salary has increased about \$2000 from 1979-80 to 1980-81. Table 6 shows the age distribution of persons employed in each category of Special Education. Approximately 80% of the teachers were 41 years of age or younger. This was also characteristic of the large numbers of teachers working with pupils who were mentally impaired (SA), speech impaired (SB), emotionally impaired (SE), and learning disabled (SM). Somewhat older personnel were typically found among social workers (SD), homebound (SH),



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consultant for physically impaired (SI), school psychologists (SG), and consultants for mentally impaired (SU).

Table 7 provides a comparison of the number of Special Education professional personnel who returned from the preceding year and the number of newly employed professional personnel for that year.

The total number of Special Education professionals has increased about 6% each year since 1976-77. As the total number has increased, the number of returning Special Education teachers has also increased each year. The number of returning teachers represented about 83% of the total group in 1979-80, while the returning Special Education teachers represented about 87% of the total instructional group employed in 1980-81.

The number of newly employed Special Education professionals (experienced and beginning teachers) has declined from 2000 or 17% of the teacher group to 1755 or 13.5% of the Special Education teachers employed in 1980-81.

Attrition: Table 8 shows the cumulative loss of Special Education professionals during seven years. Of the 6889 teachers employed in 1973-74, there were 3945 or 57% of them remaining in Special Education assignments in 1980-81. If one looks along the diagonal rows of data in Table 8, the percent returning after one year is 88% to 90%. For the second year the rate of returning teachers is about 82% of the original group. Inspection of the diagonals also reveals that the attrition rate is decreasing and a larger proportion of the Special Education teaching staff is returning in subsequent years. For example, approximately 72% of the 1973-74 teachers



returned to Special Education assignments three years later in 1976-77. However, 78% of the Special Education teachers employed in 19777-78 were still in Special Education assignments three lears later in 1980-81. This trend toward decreasing attrition is consistently found among Michigan teachers in assignments other—than Special Education.

Table 9 shows the annual loss of Special Education personnel in various teaching assignments during the six years between 1974-75 and 1980-81. Columns "A" and "B" show that there were 2228 teachers of mentally impaired pupils (SA) employed in 1974-75, but only 1360 or 61% were employed in Special Education assignemnts in 1980-81. Annual attrition rates ranged from a high of 15% for therapists (NU) to a low of 6% for school psychologists (SG). Teachers of emotionally impaired (SE) and learning disabled (SM) pupils also had relatively high attrition levels.

New Endorsements of Certificate: Table 10 shows the estimated number of initial provisional certificate endorsements in Special Education for the calendar years of 1979 and 1980. For the second year in a row there was an overall decrease in the number of total initial provisional certificate endorsements. In this case the decrease was -272 endorsements or a drop of -18.8% in 1980. This was a consistent decrease of new provisional endorsements for all categories.

Table 11 shows the initial provisional certificate endorsements for Special Education teachers recommended by Michigan institutions in the calendar year 1980. The institution is identified in the first column. The next eight columns show the Special Education code letters and the number of initial provisional certificate endorsements recommended by the



Table 11 show the Special Education endorsements recommended by an institution, the number of persons recommended, and the total number of initial provisional certificates (persons) recommended for all teaching fields in the calendar year 1980.

Table 12 indicates the total number of new endorsements in various categories of Special Education. When considered with information presented about initial provisional certificate endorsements in Table 11, it may be, seen that about 25% of the new endorsements recommended by Michigan institutions are made for beginning teachers. The remaining 75% of the endorsements in Special Education for 1980 were added to provisional/permanent/continuing certificates of experienced teachers. It appears that as teaching opportunities have diminished in some teaching fields in general education, experienced teachers have taken additional coursework at Michigan institutions in order to obtain an additional endorsement in one of the areas of Special Education.

The magnitude of this change is about three experienced teachers receiving a new endorsement for every beginning teacher endorsed. In the case of endorsements for learning disabled (SM), more than 90% of the recommendations by Michigan institutions were to persons with certificates acquired prior to 1980.

Out-of-State teachers accounted for about 10% of the new endorsements in Special Education awarded in 1980. However, out-of-State endorsements for initial provisional certification was greater than 20%. This prominence was noticeable in the areas of learning disabled (SM), and to a lesser



extent in mentally impaired (SA) and speech impaired (SB).

Special Education Administrators Table 13 provides descriptive statistics about Special Education directors (AR) and supervisors (AY) employed in Michigan Public Schools in 1980-81. Approximately 1/3 are females and the average age, is slightly over 40. Average salary of directors is about \$3500 higher than supervisors.

Table 14 indicates the institutions which provided the initial teacher preparation for this group of administrators. Only 66 or 16% of these administrators received ititial professional training at institutions outside of Michigan. This implies a preference for internal promotion to these administrative positions. MSU, EMU, WSU, and WMU are prominent in the number of their graduates who advanced to these leadership positions. As shown in Table 14, most of the Special Education administrators have masters degrees and a large number have specialist or doctoral degrees.

Table 15 provides information about the attrition of Special Education administrators. The initial diagonal in the table shows a growth in number of administrators from 183 in 1974-75 to 387 in 1979-80 and there were 405 in 1980-81. The initial spurt of new administrative positions in Special Education was evident in the 40% increase from 1974-75 to 1975-76. There has been a continuing increase in positions since that time, but the rate of increase has been about 10% annually. However, this rate has dropped to a 5% increase in new administrative positions from 1979-80 to 1980-81. The attrition rates for Special Education administrators appear to be very similar to those of Special Education teachers as reported previously in Table 8.

Substitute Teachers: A sample of 1600 substitute teachers was obtained from 13 school districts in southeastern Michigan. These substitutes were employed during the 1978-79 school year. Within the sample there were substitutes who had some Special Education endorsement on a provisional/permanent/continuing certificate. The endorsements were determined by using the social security numbers of the substitutes to select endorsement records from the Certificate Master File.

A sample of 5100 teachers was obtained from these districts. It indicated the number of paid absences of all teachers employed by the districts during the 1978-79 school year. The social security numbers of these teachers were used to select the corresponding records from the Professional Personnel Register for 1978-79. In this way it was possible to relate the number of absences to teaching fields, age, experience, salary, and other factors.

The set of 524 Special Education teachers was selected from the sample of 5100 teachers. Table 16 shows some of the characteristics of this group. Some special areas (SA, SB, SD, SE, SM) had samples greater than 25 persons and the indications of days absent, absence rate, estimated total absences may be fairly accurate indicators of traits of Special EDucation personnel in public schools in southeastern Michigan.

As shown in the table, the absence rate is high for teachers of speech impaired (SB) and mentally impaired (SA), when compared to the absence rate for all teachers in the sample.

In section B of Table 16 there were other special areas reported but



the <u>samples</u> are <u>very small</u> and <u>the numeric values</u> may <u>be unreliable</u>. They are reported in order to provide some crude indication of the extent of absences among teachers in these special areas.

In Table 17 a comparison is drawn between absences of teachers in seven areas of Special Education and substitute teachers available in the district who had provisional/permanent/continuing certificate endorsements in these areas. Although the substitute teachers with Special Education endorsements also—had endorsements in other teaching fields, it was assumed that all of their days as a substitute were in one of the areas of Special Education. This assumption was made in order to consider the maximum number of Special Education substitute teachers available to replace absent teachers in Special Education assignments.

In Table 17 there are 8 school districts selected from one county and 5 school districts chosen from another county in southeastern Michigan. If one considers only the totals in Table 17, it appears that there are shortages of qualified substitutes in learning disabilities (SM) and speech impaired (SB). However, school districts B, D, F, and M did not have a sufficient number of qualified substitutes for absent teachers of mentally impaired (SA). Similar deficiencies may be observed in the table for other school districts attempting to provide qualified substitute teachers in other areas of Special Education.

When qualified Special Education teachers were not available the school districts evidently used teachers with general education endorsements on provisional/permanent/continuing certificates or persons with 90-day permits. Of the 1685 substitutes in the sample, 137 had some



Special Education endorsement, 1057 others had provisional/permanent/continuing certificates, and 491 had special teaching permits requested by the school districts.

It may be that substitute teachers with some training in helping pupils with special impairments were used in all the districts to replace absent teachers in Special Education assignments. However, it is also possible that the districts may often be compelled to use substitute teaching personnel with little or no training in working with handicapped pupils.

The writer assumes that <u>each</u> and <u>every one</u> of the 180 days in the school year is important. This is slightly less than 1/2 of the calendar year. The loss of any one of these school days and the loss of learning opportunities which they provide is a substantial loss to the pupils.

Need for Special Education Teachers: The balance of supply and demand for teaching personnel depends upon the availability of adequate funds to employ the teachers needed by the schools. Michigan has made considerable progress in the last decade in defining goals and procedures necessary for educating handicapped children and youth. The State has also made impressive advances in allocating adequate funds to achieve those goals. It appears to the writer that this momentum will continue in spite of severe reductions in revenue available to the State. If we assume that local, State, and federal funds will be sufficient to enable school districts to comply with the provisions of Michigan's Mandatory Special Education Act, then we may estimate the level of demand for Special Education teachers in Michigan Public Schools.



The number of new teaching positions in Special Education has continued to increase in the following teaching assignments: mentally impaired (SA), speech impaired (SB), social worker (SD), emotionally impaired (SE), school psychologist (SG), hearing impaired (SL), learning disabled (SM), occupational/physical therapy (NU). The data indicate an end to the growth of new positions in public schools for the following areas: orthopedic (SC), homebound (SH), consultant for physically impaired (SI), consultant for mentally handicapped (SU), visually impaired (SK), trainable (ST).

One should be mindful that the extent of growth is small for some, areas such as hearing impaired (SL), which may involve an increase of less than a dozen positions each year. Moreover, the sharp decrease in the hiring of beginning or experienced teachers shown in Table 10 should not be disregarded. Although there have been annual increases of more than 200 new positions—in—learning—disabilities (SM), the—immediate task is to secure and maintain those advances which have been established in providing a decent education for handicapped youth.

The annual attrition rate for Special Education teachers is about 10%, which is substantially higher than the 6% to 7% attrition rate which characterizes other teaching fields in K-12 school districts. However, the attrition rate for Special Education teacher is also decreasing.

The paucity of substitute teachers with adequate training in Special EDucation raises doubts about the extent of services provided. For example, teachers of speech impaired (SB) have a relatively high rate of absence, a typically high caseload, and there are few qualified speech therapists (SB)



in the pool of substitutes considered in this research paper. How can it be asserted that a continuous and thorough program is provided for pupils with speech impairments, when it is apparent that many pupils are missing several sessions of speech therapy throughout the school year?

It seems evident that there will be a continuing demand for more teachers in those areas where new positions have been created. The need for new personnel, will be greater in areas where many new positions have been created each year e.g. Learning disabilities (SM), speech impaired (SB). In other Special Education areas the need for teachers will depend upon the rate of attrition for a given area and the school district's determination to secure qualified substitute teachers to replace absent Special Education teachers.

Recommendations: The two main recommendations of the previous study are rejterated:

- I. The accuracy of future studies of the supply and demand for Special Education personnel will be substantially improved by establishing a common coding systems so that data files collected by the Special EDucation Services and by the Teacher Preparation and Certification Services can be related. It is the writer's understanding that efforts are underway to establish this common coding system.
- 2. There should be a statewide study to determine the extent of absence among Special Education personnel, the qualifications of substitute teachers used in their classes, and an annual census of substitute teachers utilized in Special Education classes in Michigan Public Schools.



The small sample of data collected in this study indicates that there is a need to improve the supply of qualified Special Education teachers who will be substitute teachers in their areas of expertise. The absence of data makes it difficult to estimate the extent of the deficiency throughout Michigan, but it may be a formidable one.

Providing qualified teachers to assist handicapped pupils every day of the school year is an important goal. The modest gains in learning and personal achievement are hard won by handicapped pupils and their teachers each and every day. We can only speculate upon the consequences of using untrained substitute teaching personnel to replace Special Education teachers who are absent several days during the school year.



Footnotes '

1. Gary R. Smith, "Certification, Employment and Attrition of Special Education Professional Personnel in Michigan," Wayne State University, Detroit, Michigan, September, 1980.

2.Although the raw data were provided by the Teacher Preparation and Certification Services, Michigan Department of Education, the writer is responsible for the analysis and interpretation of that data.



TABLE 1 - SPECIAL EDUCATION PROFESSIONAL PERSONNEL EMPLOYED IN MICHIGAN PUBLIC SCHOOLS (1974-1981)

		MICHIG	AN PUBLIC SCHOOL	JLS (1974-1961)	****** ******** ****** ***********		······································	
	1974-75,	1975-76	1976-77 '	1977-78	1978-79 <i>*</i>	1979-80	1980-81	•
lént.Imp." (SA)	2314	2452(06)	2898(18)	2985(03)	3051(02)	3159(04)	3243(03)	^****
peech Cor. (SB)	1153	1220(06)	1407(15)	1436(02)	1496(04)	1540(03)	1595(03)	
rth. (SC)	208	219(05)	274(25)	278(01)	279(00)	277(-01)	288 (04 ·)	
oc.Work (SD)	867	943(09)	925(-02)	936(21)	975(04)	996(02)	1015(02)	
	911	1112(22)	1288(16)	1418(10)	1593(12)	1833(15)	1880(02)	
mot.Imp. (SE)	. 255	296(-23)	174(-11)	154(-11)	142(-08)	121(-15)	113(-07)	
lag, (SF)		398(34)	475(19)	530(11)	562(06)	623(11)	668(07)	****** ***********
sých. (SG)	` 297		171(1/1)	161(-06)	157(-02)	171(09)	151(-12)	•
mebd. (SH)	149	154(03)	122(+13)	121(-01)	106(-12)	110(04)	108(-02)	
C.Phy. (SI)	,152	140(-08)			159(04)	180(03)	171(-05)	
Ind (SK)	79.	86(09)	141(64)	153(09)		474(02)	486(02)	
eaf (SL)	348	368(06)	440(20)	457(04)	463(01)		2162(13)	
earn.Dis. (SM)	122	663(443)	955(44)	1243(30)	1566 (26)	1914(22)		
ain. (ST)	469	508(08)	534(14)	511(-04)	·543(06)	508(-06)	493(-03)	
Ment . Hand . (SU)	207	215(04)	1208(-03)	216(04)	231(07)	284(23)	276(-03)	•
cupt./Phys.			,		`			
Ther. (NU)	91		205(44)	220(07)	274(25)	317(16)	334(05)	
<i>\$</i>		•	`		•			
ŤÓTÁLŠ	76 2 2	8816(16)	10217(16)	" 10819(06)" ·	11597(07)	12507(08)	" [12983(Ö4)	***** ****** * **
TOTALS	1044	33.3(10)			• • • •	•	•	

Interpretation: In 1979-80 there were 3159 teachers of mentally handicapped pupils (SA) and in 1980-81 there were 3243 teachers of mentally handicapped pupils (SA). This was

a .03 increase.

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TABLE 2 NEWLY EMPLOYED SPECIAL EDUCATION PROFESSIONAL PERSONNEL IN MICHIGAN PUBLIC SCHOOLS (1974-1981).

	_	•	•				
· . '	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81
Ment. Imp. (SA)	, 432	510 (18)	+752 (47)	484 (-36)	480 (-01)	547 (14)	396 (-28)
Speech (SB)	234	207 (-12)	326 (56)	177 (-46)	221 (25)	205 (-07)	177 (-14)
Ortho (SC)	42	3 341 (−ö2)	101 (146)	42 (-58)	27 (-36)	32 (19)	33 (03)
Soc. Work (SD)	153	767 (-09)	99 (-41)	119 (20)	128 (08)	130 (02)	102 (-21)
Emot. Imp. (SE')	321	394 (23)	419 (06)	470 (12)	377 (-20)	358 (,-05)	352 (-02)
Olagn, (SF)	25	ië (-36)	13 (-19)	8 (-38)	12 (50)	2 (-83)	4 (100)
Sch. Psych. (SG)	93	96 (03)	111 (16)	84 (-24)	96 (14)	97 (01)	68 (-30)
Homebd (SH)	31	. 20 (-35)	48 (-140)	16 (-67)	16 (00) '	14 (-13)	16 (14)/
T.G.Phys. (SI)	15	14 (-07)	··· ii (-21)	12 (08)	6 (-50)	10 (67)	9 (-10)
Blind (SK)	18	`20 (A1)	69 (2.45)	26 (62)	21 (-15)	26 (24)	15 (-42)
Deaf. (SL)	68	61 (10)	179 (193)	72 (-60)	66 (-08)	ø 69 (O5)	66 (-04)
Learn. Dis. (SM)	100	492 (392)	'`` '327 (-34)`	```365 (12)	399 (09)	421 (06)	398 (-05)
Trainable (ST)	103	91 (-12)	94 03)	·65 (-31)	81 (25)	31 (62)	(22)
C.M. Hand (SU) Dccupt. Phys.	32.	25 (-22)	14 (-44)	19 (36)		, 25 (19)	17 (-32)
Ther. (NU)	. 40	63 (58)	52 (-17)	58 (12)	89 (53)	84 (~06)	. 64 (-24)
Not Classified	, <u></u> 5	7 (40)	31 (3.43)	3 (-90)	3 (00)	1 (-66)	
	•	_	•		. •	•	
TOTALS	1,712	2,224 (30)	2,646 (19)	2,020 (-24)	2,043 (01)	2,053 (01)	1,755 (-14)
	•	. (•	,		· ·•
10814444444					************		***************************************
	•			• .			

Interpretation: The social security numbers of 1979-80 personnel were compared to social security numbers of professional employees in 1980-81. Those not matched were defined as "newly employed". There were 547 newly employed teachers of mentally impaired (SA) in 1979-80 and 396 newly employed in 1980-81. This was a decrease of 28%.

TABLE 3 - BEGINNING PERSONNEL NEWLY EMPLOYED IN 1980-81 IN SPECTAL EDUCATION ASSIGNMENTS

). 36 49 -7 31	MÁÌĖ 26 _. 5₹	FÉMÁLÉ 110 44	MEAN AGE 23	BA 134 23	MED or HIGHER	ALL GRADES		``Jr/H1	Sr/Hi 26	ÖTHER	MEAN SALARY \$12,353
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7	5.5 -		23	23							
•	-	, 7			46	28	17	. 1	. 1	2	13,066.
31		• •	21	· 7	······- <u>·</u>	i ,		i	i	2	13,964
	4	, 27 .	29	2	29	23	4	,	1 .	. .	15,621
141	261	115	24	137	4	18	67	2 9	20	' 6	12,842
23	10	13	31	3	20	19,		· · · · · · · ·	1	1	16,942
з	-	3	24	ġ		· · ż .	i		25.0	"	13,145
3	-	3	, 23	2	. 1	1	1.	م 1			14,815
4	-	. 4	24	. з	-	, '2	1 .	-	•	-	13,367
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91	14	77	24	82	, 9 ,	13	39	24	12	.	12,974
6	4	2	23	. 5	1	3	. 2	1	-	-	. 13, 155
19	2	17	24	15	4	11	4	1	2	1	14,280
3 3	92 .	441	24	435	98	152	```199`	89	66	" 7	13,272
gi te ally	achers. handid	.had no capped p	previou oupi ls	emplo	oyed in 1	perience.	inere w	ere iso i	regiiiiiiig	teaciidi	
	3 4 20 91 6 19 33 acheg teally	23 10 3 - 3 - 4 - 20 1, 91 14 6 4 19 2 33 92 achers witt	23 10 13 3 - 3 3 - 3 4 - 4 20 1, 19 91 14 77 6 4 2 19 2 17 33 92 441 achers with primar g teachers had no	23 10 13 31 3 - 3 24 3 - 3 23 4 - 4 24 20 1 19 22 91 14 77 24 6 4 2 23 19 2 17 24 33 92 441 24 achers with primary assig	23 10 13 31 3 3 - 3 24 3 3 - 3 23 2 4 - 4 24 3 20 1, 19 22 19 91 14 77 24 82 6 4 2 23 5 19 2 17 24 15 33 92 441 24 435 achers with primary assignment g teachers had no previous teally handicapped pupils employ	23 10 13 31 3 20 3 - 3 24 3 - 3 - 3 24 3 - 3 - 3 23 2 1 4 - 4 24 3 - 20 1, 19 22 19 1 91 14 77 24 82 9 6 4 2 23 5 1 19 2 17 24 15 4 33 92 441 24 435 98 achers with primary assignment in spec	23 10 13 31 3 20 19 3 - 3 24 3 - 2 3 - 3 23 2 1 1 4 - 4 24 3 - 2 20 1 19 2 19 1 7 91 14 77 24 82 9 13 6 4 2 23 5 1 3 19 2 17 24 15 4 11 33 92 441 24 435 98 152 achers with primary assignment in special educators of teachers, had no previous teaching experience. ally handicapped pupils employed in 1980-81. Of	23 10 13 31 3 20 19 1 3 - 3 24 3 - 2 1 3 - 3 23 2 1 1 1 1 4 - 4 24 3 - 2 1 20 1 19 22 19 1 7 10 91 14 77 24 82 9 13 39 6 4 2 23 5 1 3 2 19 2 17 24 15 4 11 4 33 92 441 24 435 98 152 199 achers with primary assignment in special education were greateners had no previous teaching experience. There we ally handicapped pupils employed in 1980-81. Of this g	23 10 13 31 3 20 19 1 1 3 3 - 3 24 3 - 2 1 - 3 - 3 23 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	23 10 13 31 3 20 19 1 1 1 1 3 3 - 3 24 3 - 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	23 10 13 31 3 20 19 1 1 1 1 1 3 3 - 3 24 3 - 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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TABLE 4 - EXPERIENCED PERSONNEL EMPLOYED IN 1980-81 IN SPECIAL EDUCATION ASSIGNMENTS.

,	-										•	,
	75			ŀ	Highes	t Degree		Instruc	ctional	Levėl		±f
SPECIALTY	NO.	IALE .	FEMALE	MÉ AN AGE	 BA	MED or HIGHER	ALL GRADES	ELEM.	Jr/HI	Sr/Hi	OTHER	MEAN SALARY
Mentally Hand. (SA)	247	46	2 01	31	171	76	64	, 7 5	47	. 42	. ej.	\$16.971
_Speech Corr. (SB)	128	11	117	30	. 57	7,1	77	38	3	8	. 2	17.252
Orth. Hand. (SC)	21	5	16	31	16	5	11	. 4	. 2	, з	1	17,525
Social Worker (SD)	71	18	53	33 '	i á j	68	`` 5 9 ^	ä `.	ż	ï	ï`	19.459
Emot. Imp. (SE)	217	37	180	30	137	ão	. 38 ,	"· 80	47:	42	10	17,999
Diagn. (SF)	4	2	2	29	-	4	?	-	-	•'	1	18;257
Schöol Psychologist (SG)	45 ,	16	29	33	 2	43	40 40	. 4		-	1	19,568
Homebound (SH)	12	· 1	ìi	`äö `	·" ~8	` "4	• " '44 "	· <u>·</u> ·	• • • • • •	. 1		16,200
Consult. P. Imp. (SI)	<u>,</u> 6	2	. 4	36	1	5	3	2	- · · · · · · · · · · · · · · · · · · ·]	Ja ~1	19,950
B1 ind: (SK)	11	2	9	37₽	• . 7	4	. 8	i	i ^r	•	13	17.024
"Hearing imp. (SL)	49	а	46	2 9	28	żi	. 12	i7 '		6	سري.	17,908
Learn. Disabled (SM)	302	4 i	261	32	123	179	41	151	56	42	12	18,860
Trainable (ST)	33	10	23	31	25	8	23	· з	2	5	٠.	. 17,384
Consult. Ment. Hand. (SU)	17	2	15	32	6	11	5	5	4	2	1	18,581
Occupt. Physical Therapy (NU)	45	3 ,	42	29	34	11	36	7	**	1	1	17,463
TOTALS	1208	199	iöö9 .	äi	618	• 59Ö	43 i	395	175	153	54	17,973
" Experi	tenced t	teacher	rs had or rs of mer	ne or mentally !	ore ye handic	ears of te capped pu	eachers ex pils newly	tion were experience ly employe of 30 years	i. There ed in 198	e were 24	47	
	•		. •	1		•	n	\	on.	٠ •	· · ·	

TABLE 5 - SPECIAL EDUCATION PROFESSIONAL PERSONNEL EMPLOYED IN 1980-81 IN SPECIAL EDUCATION ASSIGNMENTS IN MICHIGAN PUBLIC SCHLOLS

· •	•			н	Ighest	t Degree	•	Instru	ctional Le	eve 1		• ,
SPECIALTY	NO .	MALE	FEMALE	MEAN AGE	BA	MEO.or HIGHER	ALL GRADES	ÈLEM.	Jr/H!	Sr/H1	OTHER	MEAN SALARY
"Mentally Hand. (SA)	3123	759	2364	33"	19 1Ö	1213	883	1077	444	522	197	\$19309
Speech Corr. (SB)	1586	213	1373	33	ė ė ė	950	, á 0 e	5 <u>5</u> 5	20	~24	8 <u>1.</u>	19924
Orth. Hand. (SC)	270	39	231	32	164	106	98 .	103	19	31	19	20090
Social Worker (50)	10Ö3	ÉÓE i	7ÖÒ	40	` `49	945	794	126	"` 22	```35	26 "	22598
Emot. Impaired (SE)	1945	469	1476	, 30	15Ó3	742	. ; (393)	, 829	330	266	127	18288
Diagn. (SF)	114	55	59	41	2	112	85	. 14	1	1	າສື້	2507 8
(Schöol Paychologist (SG)	661	` 348	3.13	36	30	631	576	43	· · · · · · · · · · · · · · · · · · ·		21	22403
Homebound (SH)	150	29	121	38	75	75	" 123 [12	, §	, a	. 4.	20783
Consult. P. Imp. (SI)	108	3 24	84	38	35	73	70	. 1,8	. 4	10	, ^{t,} 'e'	21322
Blind (SK)	171	28	143	33	87,	. 84	117	28	7	10	e	20146
Hearing Imp. (SL)	597	7 65	53 2	· 33	272	. 325	173	184	63) 59°	104	20614
Learn. Disabled (SM)	2072	2 241	18311	32	848	1224	308	991	398	2,92	83	19379
Trainable (ST) ,	494	104	390	33	287	207	. 354	. 87	. 16	12	` 25	20217
Consult Ment. Hand. (SU)	276	89	187	36	73	203	101	76	27.	51	21	22385
Occupt./ Physical Therapy (NU)	334	29	305	31	285	49	221	63	9	9	3,5	1847
TOTALS 1	12904	2795	10 109	33	5956	6948	5202	42 06	1375	1339	782	19953

Interpretation: There were 3123 teachers of mentally handicapped publis in 1980-81.
Of this group 759 were male and 2364 were female, with an average of 33 years.

1.05

TABLE 6 - AGE DISTRIBUTION OF SPECIAL EDUCATION TEACHERS EMPLOYED IN 1980-81 SPECIAL EDUCATION ASSIGNMENTS

IN MICHIGAN PUBLIC SCHOOLS

*		94.0	• •		, - 1, 1, 1, 1	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				•	
· ·		PERSONS	IN EACH	AGE INT	TEŖVAL	•	PE	RCENT IN	N EACH AG	GE INTERV	AL 💘
	Number	20-30	31-40	4 1 - 5Ö	5 i -60	61/more	20-30	31-40	41-50	51-60,	61/more
Mentally Hand. (SA)	3 123	1721	756	333 (276	37	, , 55,,,	. 24.	11	9 .	
Speech Corr. (SB)	1586	776	500 `	210	91	9	49	31	•13	7	. 1
Orth. Hand. (SC)	<u> </u>	វិទីទី	ĠÒ.	`¨ 34	18	· 'ä	57	22	" ii .	" \ 7 , ``	· · · · · · · · · · · · · · · · · · ·
Social Worker (SD)	1003	• 223	3 34	229	205	. 12	22	33	23	. 20.	<u>/1</u>
Emot. Imp. (SE)	1945	1 1274	449	159	60	3.	. 66	23	. 8	3	•
Diagn. (SF)	114	• 14	37	43.`	2 0		``` i ż .	33	` 38 }	17	* * 4* * * * *********************
School Psychölogist (SG)	661	2 ì è	249	120	66	10 " \	~~ 33 '`` (`	` 3 8 *	18	10	
Homebound (SH)	150	56	, 35	. 25	31	, , , , 3 , ,,	. 3,7	. 23 .	1,7	2.1	2
Consult. P. Imp; (SI)	108 .	32	31	28	17	* . = .	30	29	. 26	15	- '
Bïind (SK)	171	,87	48	22	12	Ż	ˈ5i · ^	[•] 28	13	, , , ,	
Hearing Imp. (SL)	597	308	157	81	44	₹7 _€ .	, ¹ 52	. 26	14	. 7	1
Learn. Disabled (SM)	2072	1 104 م.	574	289	. 99	6	53	28	14 .	. 5	- .
Trainable (ST)	. "494	2Ġ i ̈	134	55	· 34	1Ò '	53	` 27	ii	" ' ř "'	,2
—Consult. Ment. Hand. (SU)	276	94	106	49	24	3	34	ää	18	9	* 2 ***********************************
Decupt./ Physical Therapy (NU)	334	. 200	83	37	[%] 13	1	ĠÓ -	- 25	11	4	n digisedani
TOTALS	12904	6521	3553	1714	1010	106	51	28	14	7	^ 1 · · · · · · · · · · · · · · · · · ·

Interpretation: Of the 3123 teachers of mentally handicapped pupils, 1721 were 20 to 30 years old.

This age group contained 55% of the total (SA) group.

X

TABLE 7

RETURNING AND NEWLY EMPLOYED PROFESSIONAL PERSONNEL IN SPECIAL EDUCATION ASSIGNMENTS IN L

Ä.	PERSONS RETURN FROM	74-75	2 75-76.	76-7?	77-78	78 - 79	79-80	. 80-8
****	PRECEDING YEAR		•	•	. 4			
· ·	NUMBER:	• 5.9ë0	6.711	7,766	8,898	9.653	10,356	11,234
*/- '	PROPORTION:	(777)	(751)	(746)	(819)	(825)	(834)	(865)

3. NEWLY EMPLOYED

PERSONNEL

NUMBER:	1,712	2.224	2,646	2,020	2.043	2,054	1,755
PROPORTION:	(223)	(249)	(254)	(183)	(175)	(166)	(135)

C. YEAR TOTALS

NUMBER:

►	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
_						

8.935

7,672

Interpretation: A comparison of social security numbers was used to establish whether a teacher was newly employed or returning from the preceding year. There were 5,960 special education processional personnel employed in 1974-75 who were also employed in 1973-74.

This 5,960 represents .777 of the special education staff of 7,672 employed in 1973-74.

There were 1,712 or .223 newly employed professional personnel. Row C totals include persons who became supervisors of special education (AY).

11,009

11.696

(973-74 6889 1.00	1974-75 5960 .87 *\$929 7610 1.00	1975-76 5418 . 79 1471 . 6711 .88	1976-77 4987 .72 1902 6079	1977-78 , 4588 .67 2301 5551	1978-79 4307 .63 2582	1979-80 4109 .60 2780 4890	1980-81: 3945 .57 2944 4687
	.87 *929 7610	1471 6711 .88	1902 6079	.67 2301 5551	.63 2582 5189	60 2780	.57 2944
1.00	7610	67:1	1902	2301 5551	2582 	2780	2944
	7610	67:1	6079	5551	5189 ·		
		.88			,	4890	4687
		.88			,	4890	4687
	1.00		80				•
		899		. 73	.68	.64	. ę 2
			1531	2059	2411	A 2720	2923
		•	•	4			
		8848	7766	6952	6147	6013	5734
•		1.00				.68	.65
			1082	1896	2431	2835	3114
		* 414 * 1 * 100		T 460 2 447248412 49	x 44 - 31 - 482X - 84 P	X A4 45455 PREPRAG MARKET	Ada Kasatasana, rdafiliadatasa
			10205	8589	8257	7697	7312
			1.00	. 88	.81	.75	72
			###184 Beands 14718 6 4 400	1216	1948	2508	2893
			•			,,,	*.
•			•	108 15	9653	8883	8389
•		•		1.00		.82	.78
,	•			bs 45 *	1162	1932	2426
	•						
	**	,			11592	10356	9656
	,	* * *	,	* * * **		., .89	
	-					1236	໌ 1,936
	* .	• •	* * * * *				- ** ******************************
			, , , ,		. ,	12410	11220
				.			.90
,		~ 27		<u> </u>			1 190
•		~ •			• 176.2 2.4		
				1.0088	1.00 .88 .79 1082 1896 10205 8989 1.00 .88 1216	1.00 .88 .79 .73 1082 1896 2431 10205 8989 8257 1.00 .88 .81 1216 1948 10815 9653 1.00 .89	1.00 .88 .79 .73 .68 1082 1896 2431 2835 10205 8989 8257 7697 1.00 .88 .81 .75 1216 1948 2508 10815 9653 8883 1.00 .89 .82 1162 1932 11592 10356 .89 1236

TABLE 9 - ATTRITION OF SPECIAL EDUCATION TEACHERS EMPLOYED IN MICHIGAN PUBLIC SCHOOLS

DURING SIX YEARS (1974-1981)

B C D E F G H I J K L

APGRESS *	À	B	Ċ	Ď ,	Ë	ř.	" G	" Н	I	J	K	, L
····	Tchr. Employ 74-75	Tchr. Remain E 80-81	Tchr. imploy 75-76	Tchr. Remain 8 80-81	Tchr. mploy 76-77	Tehr. ? Remain 80-81	Tchr. Employ 77-78	Tchr Remain 80-81	Tchr. Employ 78-79	Tchr. Remain 80-81	Tchr. Employ 79-80	Tchr. Remain ◆ 80-81
Ment. Hand. (SA)	2228	1360(60)	2369	1529(64)	2771	1986(72)	2875	2229(77)	2945	2438(83)		2810(90)
Speech Corr. (SB)	1139	. 767(67)	120,9	842(70)	139,2	1046(75)	1419	1130(80	1479	1268 (86)	1528	1398(91)
Orth. Hand.(SC)	203	121(60)	2214	-142(66)	261	191(73)	266	205(77)	266	224(84)	262	243(93)
Social Worker(SD)	863	551(64)	939	624(66)	9 Ž Ö	668(73)		736(79	969,	810(84)		901(91)
Emot. Imp.(SE)	887	514(58)	1089	674(62)	1252	875(70)	1,379	1043 (76) 1,552	[1253(81)	1687	1495(89)
ָDiagn. (SF)	254	180(71)	195	149(76)	173	141(81)	153	127(83) 141	126(89)	1 19	113(95)
TSChool Psychologist(SG)	. 296	192(65)	398	275(69)	474	354(75)	527	424(80)	561	491(87)	619	580(94)
Hömebound(SH)	148	88(59)	153	9Ġ(Ġġ ₍)	171	.1 16(68)	i ë1	125(78) ```i5Ż	133 (85)	154	140(91)
Consult.P.Imp.(SI)	149	77(52)	137	· 77(56)	119	79(66)	1 19	86(71) 105	88 (84)	103	95(92)
Blind(SK)	₹ 79	51(64)	В6	59(69)	139	103(74)	151	119(79) 158	131(83)	165	154(93)
Hearing Imp.(SL)	334	201(58)	364	222(61)	428	302(71)	442	333(75) 447	362 (8 i)) 456	404(89)
Learn. Disabled(SM	110	58(53)	651	398(61)	906	(633(70)	1179	911(77) . 1487	1245 (84)	1799	1612(90)
Trainable(ST)	463	294(63),	502	336(67)	527	387(73)	509	414(81) 541	456 (84)	492	451(92)
Consuit. Ment. Hand.(SU)	203	108(53)	212	126(59)	207	136(66)	215	153(71)	226	181(80)	264	238(90)
Occupt./Physical Therapy(NU)	91	48(53)	142	86(61)	205	, 126(61)	219	150(68)	273	 210(77)	317	270(85)
TOTALS	7457	4610(62)	8660	5635(65)	9945	7143(72)	10545	8184(78)	11307	9416(83)	12081	10904 (90)
Interpretation: Col	D ch	shows that ows 1360 o ts in Mich	r 61% (nf the (SA) teaci	hers were	STILL	emploved	าท ายชบ	-BIIN SPE	ecial e	ducation

six years.

TABLE 10 .

INITIAL PROVISIONAL CERTIFICATE ENDORSEMENTS IN SPECIAL EDUCATION FIELDS IN CALENDAR YEARS 1979 AND 1980

Calendar Year

	1979	1980	Change	Prop. Change	
Mentally Handicapped (SA) 503	430	-73	-14.5% ⟨	
Speech Correction (SB)	170	""""111"	-69	-40.6%	** ** * ** * *********
Orthopedically Hand. (SC	<u>)</u> 120	90	-30	-25.0%	
Emotionally Dist. (SE)	290	240	-50	-17.2%	
Homebound (SH)	120	88		-26.7%	*** * * **** **** * ********
Visually Handicapped (SK) 48	42	6	-12.5%	******** * **********
Hearing Impaired (SL)	61	·57	-4	-6 . 5%	
Learning Disabilities (S	M)	118·	-18	~13.2%	
TOTAL ENDORSEMENTS	1448	"" '1176"	-272	-18.8%	

Interpretation: In 1980 there were 430 initial provisional certificate endorsements of teachers of mentally handicapped. This was 73 endorsements less than the preceding year or -14.5% change.

TABLE 11	NUMBER	OF SI	PECIAL E	DUCAT BY N	ION EN	DORSEM N INST	IENTS O	N INIT	IAL PROVI	SIONAL CERT DAR YEAR 19 No. of Pers.	FIFICATION PROV.
parace and some to the section of	Codes	for	Special	<u> E</u> duç	ation	Certif	icates		Endors.	Cert.	Cert.
Institution	SA	SB	" sc	SE	SH	SK	SL	· SM	Sp. Ed.	Sp.Ed.	in Educ.
·CMU	. 57 · 63	16	-	43	-	-	-	-	122	122	598
EMU	37	17	" 15 "	ėö .	15	1Ö	ië ·	···- <u>-</u> ·····	170	153	388
Grand Valley	54	.	1	46	. 1		6	24	132		187
Норе	•	-	-	6	<u>.</u>	-	-	14	20	. 19	77
Madonna	-	-	- ,	-	<u>-</u> '	- '		2		, ż	32
Marygrove	. 7	- ,	.	10		<u> </u>	um XB))***4 **XB	2	19	19	39
MSU	44	16	-	32	-	16	16	-	124	123	64 1
Nazareth	<u></u> .	-	. :	-	··· -	, .		·· į		4"	
NMU	. 15	8	- `.	-		-		. 2.	25	25	149
Oak 1 and	-	-	-	-	-		· -	1	1	1	77
Univ. of Detroit	-	- '	· -	-	-	- '		· 4	···· à	· · · à	

57 118 1176

Interpretation:	İn	1980	Centi	ral Michig	an	Univer	sity	(CMU)	recommend	ėd 598	initial	"provisiona i
Cei	rtif	tcate	s in	educat ion	Of	which	122	were	in special	educa	tion.	1

_Univ. of Michigan

Other_Mich. Inst.

"" Öüt-of-Mich.

Totals

"""ÄII U.S.

Mich. Totals

0

430 111

WSU

"WMU

TABLE 12 TOTAL NUMBER OF NEW ENDORSEMENTS RECOMMENDED BY MICHIGAN AND OTHER INSTITUTIONS
FOR SPECIAL EDUCATION TEACHERS IN CALENDAR YEAR 1980

•		Endors	sement	Codes			4.4 10140		Total	Total	A11	
Institution	SA	SB	sc	SE.	SH	sk	SL	SM	Sp.Ed. Endors.	Persons Endors.	1980 Endors.	All Pers
CMU	186	69	· · · · · · · · · · · · · · · · · · ·	124				25	422	372	2297	122
EMU	175	74	64	223	66	25	51	120	798	620	2783	1408
Grand Valley	136	1	17	127	9	-	13	97	400	219	515	28
Hope .	<u></u>			6		····· ·		23	31	28	115	75
Madonna	2		2	. 21	2			41	68	59	143	88
Marygrove	15	1	-	24	•	1	1	50 -	92	72	196	Št
MSU	126 ·	36	ë	94		25	24	30	352	308	2277	1228
Nazareth						-		4	4	· '4		······································
NMU	64	13	-	5	-	-	É	· 19	103	92	502	302
- Oakland	• 37	· ġ.	· . is	·· 59	12	3	····; 5 ·	125	257	191	117	627
Saginaw	6		2	2	2	_	-		12	9	301	152
Univ. of Detroit	5	-	1	4	2	1	-	33	46	42	216	104
Univ. of Michigan	" 29 `	10	σ 1ö	28	jj	7	5	20	120	93	1035	57€
WSU	, 185	. 29 ,	. 120	50	118	13	10ء	68	593	321	1989	864
WMU . 4'	96	23	32	73	33	9	3	39	308	254	1786	9,84
Others		· i	"' "' i "	· •		-	**** *** ******************************	4	. 9	6	457	283
Mich Totals	1065	260	¨ 278 '	"ä4i"	270	···· 84	~ " 118"	698	3614	2690		_*************
Out-of-Mich.	156	49	1 1	40		5	24	90	383	285		
All U.S.	1221	309	289	881	278	89	142	788	3997	2975		٠
			,		.,			*** ******* * ****) «**** *******
	**		. •,				,	. 45		······		*******
	•							,				
						****			ÿ			, , , , , , , , , , , , , , , , , , ,
	17							-			•	•

RIC Text Provided by ERIC

TABLE 13 - ADMINISTRATIVE PERSONNEL EMPLOYED IN SPECIAL EDUCATION 1980-81

MEAN ALL CENTRAL MEAN	Addition of the second of the		*****		×		ADMI	VISTRATIV	VE LEVEL			
Supervisors (AY) 205 124 81 39 133 14 4 15 39 28642 TOTAL 405 277 127 40 218 26 4 18 138 . Interpretation: There were 199 Directors of Special Education employed in Michigan Public Schools in 1980-81. TABLE 14 - PROFESSIONAL EDUCATION OF SPECIAL EDUCATION ADMINISTRATORS EMPLOYED IN 1980-81 INSTITUTION RECOMMENDED INITIAL TEACHING CERTIFICATION OF SPECIAL EDUCATION ADMINISTRATORS ACHIEVED Specialty CMU EMU MSU NMU UM WSU WMU Witch State BA ME Spec Doct. Directors (AR) 16 25, 40 7 16 29 22 11 33 2 148 31 18 Supervisors 18 33 33 4 14 25 30 15 33 11 167 15 12	SPECIALTY		<u> </u>	MALE	FËMALE	MEAN	ALL	_ `			CENTRAL	MEAN
TOTAL 405 277 127 40 218 26 4 18 138 Interpretation: There were 199 Directors of Special Education employed in Michigan Public Schools in 1980-81. TABLE 14 - PROFESSIONAL EDUCATION OF SPECIAL EDUCATION ADMINISTRATORS EMPLOYED IN 1980-81 INSTITUTION RECOMMENDED INITIAL HIGHEST DEGREE ACHIEVED Specialty CMU EMU MSU NMU UM WSU WMU Mich. State BA ME Spec. Doct. Directors (AR) 16 25, 40 7 16 29 22 11 33 2 148 31 18 Supervisors 18 33 33 4 14 25 30 15 33 11 167 15 12	Directors (AR)	1	99	153	46	42	. 85	12	`-	, 3	99	\$32332
TOTAL 405 277 127 40 218 26 4 18 138 Interpretation: There were 199 Directors of Special Education employed in Michigan Public Schools in 1980-81. TABLE 14 - PROFESSIONAL EDUCATION OF SPECIAL EDUCATION ADMINISTRATORS EMPLOYED IN 1980-81 INSTITUTION RECOMMENDED INITIAL HIGHEST DEGREE ACHIEVED Specialty CMU EMU MSU NMU UM WSU WMU Mich. State BA ME Spec. Doct. Directors (AR) 16 25, 40 7 16 29 22 11 33 2 148 31 18 Supervisors 18 33 33 4 14 25 30 15 33 11 167 15 12	Supervisors (AY)	2	.05	124	81	39	133	14	₹ ,			_
Interpretation: There were 199 Directors of Special Education employed in Michigan Public Schools in 1980-81. TABLE 14 - PROFESSIONAL EDUCATION OF SPECIAL EDUCATION ADMINISTRATORS EMPLOYED IN 1980-81 INSTITUTION RECOMMENDED INITIAL TEACHING CERTIFICATION / Other Out of Specialty CMU EMU MSU NMU UM WSU WMU Mich. State BA ME Spec. Doct. Directors (AR) 16 25, 40 7 16 29 22 11 33 2 148 31 18 Supervisors 18 33 33 4 14 25 30 15 33 11 167 15 12			•						4	18	138	
EMPLOYED IN 1980-81 INSTITUTION RECOMMENDED INITIAL TEACHING CERTIFICATION / Other Out of Specialty CMU EMU MSU NMU UM WSU WMU Mich. State BA ME Spec. Doct. Directors (AR) 16 25, 40 7 16 29 22 11 33 2 148 31 18 Supervisors 18 33 33 4 14 25 30 15 33 11 167 15 12	Interpretation:	There	were	199 D			ecial Edu	cation er	nployed	in Michi	gan Publi	
EMPLOYED IN 1980-81 INSTITUTION RECOMMENDED INITIAL TEACHING CERTIFICATION) Other Out of Specialty CMU EMU MSU NMU UM WSU WMU Wich. State BA ME Spec. Doct. Directors (AR) 16 25, 40 7 16 29 22 11 33 2 148 31 18 Supervisors 18 33 33 4 14 25 30 15 33 11 167 15 12	<i>j</i>	F	•		٠. <	,						
TEACHING CERTIFICATION / Other Out of Specialty CMU EMU MSU NMU UM WSU WMU Mich. State BA ME Spec. Doct. Directors (AR) 16 25, 40 7 16 29 22 11 33 2 148 31 18 Supervisors 18 33 33 4 14 25 30 15 33 11 167 15 12		ŤÅ	IBĻË 1	4 - PŘ	ÖFËSSIÖ				EDUCATI	ÖN ADMIN	ITSTRATORS	
Specialty CMU EMU MSU NMU UM WSU WMU MTCH. State BA MC Spec. 505. Directors (AR) 16 25, 40 7 16 29 22 11 33 2 148 31 18	•	ÏÑŚĪ	TEACH	ÖN REC	ÖMMÉNÖEI RTIFICA	TNITI	ÄL /		****** ** **** * *	***		
Supervisors 18 33 33 4 14 25 30 15 33 11 167 15 12	Special ty	ĊĦŮ	ĖMŪ	MSU	· NMU · "	ÙM ' W	su' WMU'	Other Mich.	Out of State		ВÄ	ME Spec. Doct.
	Directors (AR)	1,6	25 ,	40	7.	16	2922	11	33		2	148 31 18
TOTALS	Supervisors	. 18	33	33	4 .	14	2530	15	33		11	167 15 12
	TOTALS	. 34	58	73	. 11	30	54 52	26	66		13 :	315 46 30
				iè ni	rectors	of Spe	cia: Educ	ation wh	o reciev	eď ťhé i	- initial	teachers education
Interpretation: There were 16 Directors of Special Education who recieved their initial teachers education at Central Michigan University.	interpretation:	There it Cen	tral M	lichiga	n Unive	rsity.						

TABLE 15 -- ATTRITION OF SPECIAL EDUCATION ADMINISTRATORS (1974-1981)

1974#35 Administrators	1974-5	1975-6	1976-7	1977 <i>-</i> 8	1978-9	[,] 1979-80	1982-81
a) Total Present	183	164	7 145	130	125^.	119	112
b) Percent Return	1,00	.90)	\ 79	71		. 65	.61
c) Total Not Return		-19	38	53	58	64	71 •
1975-76 Administrators				*********************			
(a) Total Present	, , , , , , , , , , , , , , , , , , , ,	256	225	198	187	178	163
b) Percent Return		1.00	.88	.77	.73	. 69	,64
c) Total Not Return			31	58	. 69	78	93
1976-77 Administrators							***************
a) Total Present			288	253	231	220	204 🖁
b) Percent Return	, , , , , , , , , , , , , , , , , , , ,		1.00	.88	.80	.76	., .71
c) Total Not Return	,	* * * * * * * * * * * * * * * * * * * *		35	57	68	84
1977-78 Administrtors						•	• -
a) Total Present	* * * * * * * * * * * *	get 1 4 7 4 490 7 8		318	285	266	242
b) Percent Return			10 0075-1 FSG 5 X 0100 FSGG	1.00	.90	,84	.76 .
c) Total Not Return				,	33	52	76
1978-79 Administrators	E 4 4 48	** 1 14 X X4****************************	· · · · · · · · · · · · · · · · · · ·			•	*******************************
a) Total Present					354	323	295
b) Percent Return		5			1.00	.91	, 83
c) Total Not Return	y a ma asen se				A	31	59
1979-80 Administrators	, , k			********		e r x despessor dansarages e re-	·
a) Total Present						387	347.
b) Percent Return		acca byto setset		**** **** ***** *	· · · · · · · · · · · · · · · · · · ·	1.00	. 90
c) Total Not Return	. ,		* **** *** * ***			744 \$500 0 40 5 000040\$45 0540	40



TABLE 16 - ABSENCE OF SPECIAL EDUCATION TEACHERS IN SELECTED SCHOOL DISTRICTS SOUTHEASTERN MICHIGAN (1978-9)

Field	A. No. of	B. Davs	· C. Absent	' D. Salary	E. Daily	F. Cost	G. Total	H, / Total	
,	Persons	Absent (Mean)	Rate % (B. 190)	(Mean)	Rate (Mean; 0/190)	(Mean; B*E)	Cost (A*F)	Cost	۰ ر
	*** * **** * * * * * * * * * * * * * * *							,	
A. Samples Greate Than 25	ır				************************		\$		
200.000 min	405	9.0	4.7	17657	93	859	107375	1130,7	
Ment.H. (SA)	125 68	44 4 .	5.8	18038	95	1076	73168	.761.4	
Speech (SB)	48			21185	111	977	46896	413.5	
Soc.Wk. (SD) Emot.H. (SE)	80	7 7	4.0	16000	84	664	53120	618.5	
	31	7 3	3.8	20777	109	838	25823	228.7	
- Psychol (SG) Learn.D. (SM)	96	7.8	4.1	17263	91 ::"	723	69408	751.0	
B. Samples Less Than 25		, v		***** * ** ******	an i martania (1) (1)	***************************************			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
· Drth.H. (SC)	11	4.0	2.1	16181	85	346	′ 3806	44.7	
Diagnost. (SF)		" 5 .3 · · ·	2.8	24552	129	667	4669	37.1	
Homebd. (SH)	8	5.0	2.6	18628	98 `	515	4120	40.2	
Phys.Imp. (SI)	12	9.2	4.8	20652	108	959	11508	111.3	4
Blind (SK)	7	9.6	5.0	17007	89	870	6090	67.5	
Deaf (SL)	20	6.5	3.4	17421	92	597	11940	130.6	
Cons.M.I. (SÙ)	416	14.0	7 . 4	19125	100	1389	15279	155.0	
C. All Special							400000	4400 0	
Ed Teachers	1524	8.5	4.5	18058	95	826	433202	4490.2	

TABLE 17 - COMPARISON OF TEACHER DAYS ABSENT IN SPECIAL EDUCATION AREAS AND DAYS SUBSTITUTE TEACHERS WITH SPECIAL EDUCATION ENDORSEMENTS WERE EMPLOYED (1978-79)

	c				١,								•	
##**## # <-	* * * * * * * * * * * * * * * * * * * *	!					Endorser	nent Cod	ies		. ,, .,	* * * **		L
	, S	A	SE	· }	sc		S	<u> </u>	SK	\$1444 149774 <i>74</i> 99* 4	<u>s</u> L	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	SM	.,
istrict	Absnt	Subs	Absnt	Subs	Absnt	Subs	Absnt	Subs	Absnt	Subs	Absnt	Subs	Absnt	Subs
<u>X</u>	58 ′	28.5	46	<u>.</u>			19	Ö	- 	=	Ö	72		- 1
В	88.5	0	26	0	7.5	<u> </u>							22.5	24 -
c ·	42.5	116	37	23.5	0	131	19.5	6					83.5	. 0
	61.5	5.5	30.5	26	ö	6.5	185	156	· · · · · · · · · · · · · · · · · · ·	52.5			33.5	O
E	37.0	142	26.5	2	10.0	79	25	<u> </u>					15.0	5
F	23	0	6	0			ò	9	e ==		~ €		21.0	o ;
Ğ		·	15	```Ö ''` ''''			16	149					13.5	Ö
н	251	256	228	7,1	5.0	0,	135	160	57	0	62.5	11	216.5	Ya
	- 504 5	E40.0	415	122.5	22 5	216 5	399.5	480	57	52.5	62.5	83	405.5	48
Sub-Total	5 561.3		419		**									
Interpret	t	In schoo eachers 978-79.	l distr with end	lct "A" dorsemei	teachers nts in th	of mer	ntally i	mpaired worked a	pupils (SA) wer of 28.	e absent 5 days i	58 day n distr	s. Subs	t i tut in
	. .	316-13.	Ø '	٠,							*** ****			
•				•	•			7-9	•	•				i
93905 2246666572. 2	****** * ****	,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					** *** * *******		• • • • • • • • • • • • • • • • • • • •	3479 ER) 92 KB98 4884	••••• ••••• ••••• ••••• •		
-4000 !!	*	, , , , , ,							, tr lig Milktin ga		3 <u></u>			

TABLE 17 (continued)

**********	"I ADEE"	΄Ω΄ (Gon	'ci uíoeó y	•	t	4	Endor	sement (Codes				· · · · · · · · · · · · · · · · · · ·	, ,	
			````````````	3	sc			<b>*****</b> *****	SK.	***** *** * * * **	SL		SM	*	
District	Absnt	Subs	Absnt	Subs	Absnt	. Subs	Absnt	Subs	Absnt	Subs	Absnt	Subs	Absnt	Subs	
Ï	26.5	25.3	128.7	ä.ä		" <b>27.</b> "5	62.3	2.5					114.5	3.0	•••
J	143.2	234.0	24.7	<b>2</b> .0	12,2	20.0	55.7	147.0	10.5	<b></b>	18.6	5.0	69.0	14.0	*
ĸ .	229.0	239.0	38.5		8.0		33.0					2.5		-	
<u> </u>			` . 8Ö			52.Ö	4.5	66.0	• •				35.0	-	•••
M	159.0	67.0	146.5	12.5	2.0	2.0	67.5	42.0		• • • • • • • • • • • • • • • • • • •	49.5		56.0	3.0	
Sub-Total:	s. <u>5</u> 63.7	565.8	346.4	23.3	22,2	141.5	223.0	3.12.5	10.5	0	68.1	7. 5	845.5	20.0	)
Grand Totals	1)125.2	1113.8	761.4	] 145.8	44.7	358.0	, <b>622.</b> 5	792 .5	67.5	52.5	130.6	90.5	751.0	68.5	.44